

Title (en)

FLUORINE-CONTAINING POLYMER, FILM, FILM MANUFACTURING METHOD, AND ORGANIC OPTO-ELECTRONIC ELEMENT

Title (de)

FLUORHALTIGES POLYMER, FILM, VERFAHREN ZUR HERSTELLUNG EINES FILMES UND ORGANISCHES OPTO-ELEKTRONISCHES ELEMENT

Title (fr)

POLYMÈRE CONTENANT DU FLUOR, FILM, PROCÉDÉ DE FABRICATION DE FILM ET ÉLÉMENT OPTOÉLECTRONIQUE ORGANIQUE

Publication

**EP 4112655 A1 20230104 (EN)**

Application

**EP 21761065 A 20210224**

Priority

- JP 2020030460 A 20200226
- JP 2021006902 W 20210224

Abstract (en)

A fluorinated polymer suitable for deposition is provided. A film containing such a fluorinated polymer as a material is provided. A method for producing a film, by which such a film can readily be produced, is provided. Further, an organic photoelectric element having such a film in its structure is provided. A fluorinated polymer which satisfies the following requirements (1) to (3): (1) the melting point is 200°C or higher, (2) the thermogravimetric loss rate when the temperature is increased at a temperature-increasing rate of 2°C/min under a pressure of  $1 \times 10^{-3}$  Pa, substantially reaches 100% at 400°C or lower, (3) when the temperature is increased at a temperature-increasing rate of 2°C/min under a pressure of  $1 \times 10^{-3}$  Pa, the temperature width from a temperature at which the thermogravimetric loss rate is 10% to a temperature at which it is 90%, is within 100°C.

IPC 8 full level

**C08F 14/18** (2006.01); **C08L 27/12** (2006.01); **H01L 51/50** (2006.01); **H05B 33/10** (2006.01)

CPC (source: EP KR US)

**C08F 8/14** (2013.01 - EP); **C08F 8/22** (2013.01 - EP); **C08F 214/26** (2013.01 - KR); **C08F 214/262** (2013.01 - EP KR US); **C08L 27/12** (2013.01 - EP); **C09D 127/22** (2013.01 - EP); **H05B 33/10** (2013.01 - EP KR); **H10K 71/164** (2023.02 - EP); **H10K 85/115** (2023.02 - US); **H10K 50/17** (2023.02 - EP KR); **H10K 50/858** (2023.02 - EP KR); **Y02E 10/549** (2013.01 - EP KR); **Y02P 70/50** (2015.11 - EP)

C-Set (source: EP)

1. **C08F 214/262 + C08F 216/1408**
2. **C08F 8/22 + C08F 214/262**
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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

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